



Building Performance Equipment, Inc.®

Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE-SC-UNI-6000 Commercial Installation Specifications and Guidance

BPE Inc.
80 Broadway, Hillsdale, NJ

Phone: 201-722-1414
info@bpequip.com





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Sustainable, Reliable, Energy Efficient, Ventilation Systems



At Building Performance Equipment Inc., we are committed to designing high-efficiency HVAC systems. With superior energy recovery at the heart of our current product line, we have raised the bar on ERVs that make a satisfying impact on your energy bill, health, and carbon footprint. This document is intended to illustrate the assembly of a commercial 6000 cfm ERV with necessary components and information provided. Please contact us at 201-722-1414 if you have any questions.



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Sustainable, Reliable, Energy Efficient, Ventilation Systems



BPE self-contained unitary ventilation systems are tested during the manufacturing process before we carefully package them for shipping.

The control system has the following features:

Easy To Use — Setting changes can be made easily with the touch of a button.

Easy To See — Intuitive digital backlit display.

Customizable — Include individual air quality enhancements to your system with TrueIAQ™, or integrate them all as part of a total air quality system.



All-In-One — Manages humidification, dehumidification, ventilation and bathroom fans from a central point in your home.

Smart Change/Check Reminders — Lets you know when to service or replace filters, UV bulbs and humidifier pads (based on actual run time).

Advanced Temperature and Humidity Sensing — Simultaneously displays both indoor and outdoor temperature and humidity levels on-screen. Automatically adjusts inside settings based on outdoor conditions.

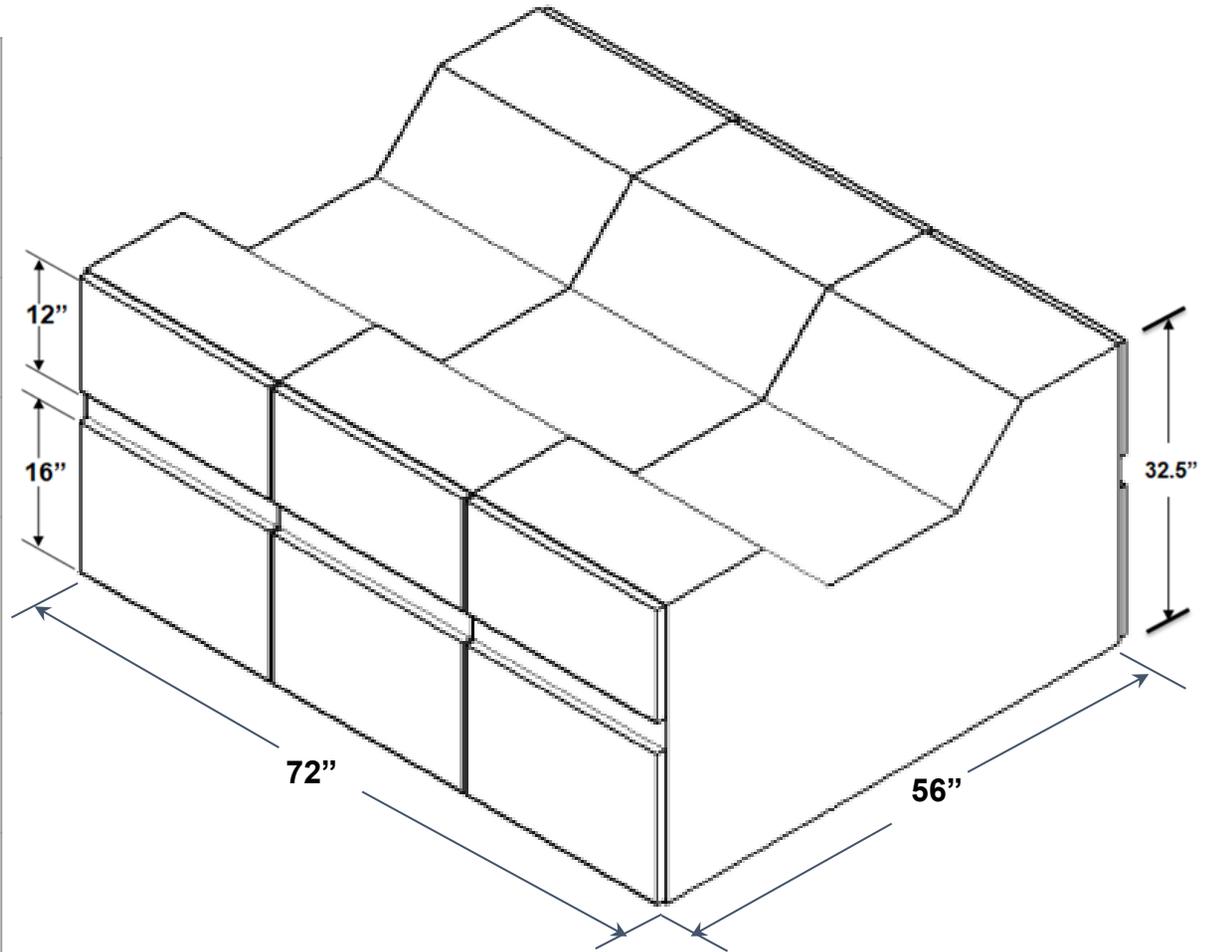




BPE-SC-UNI-6000

Specifications

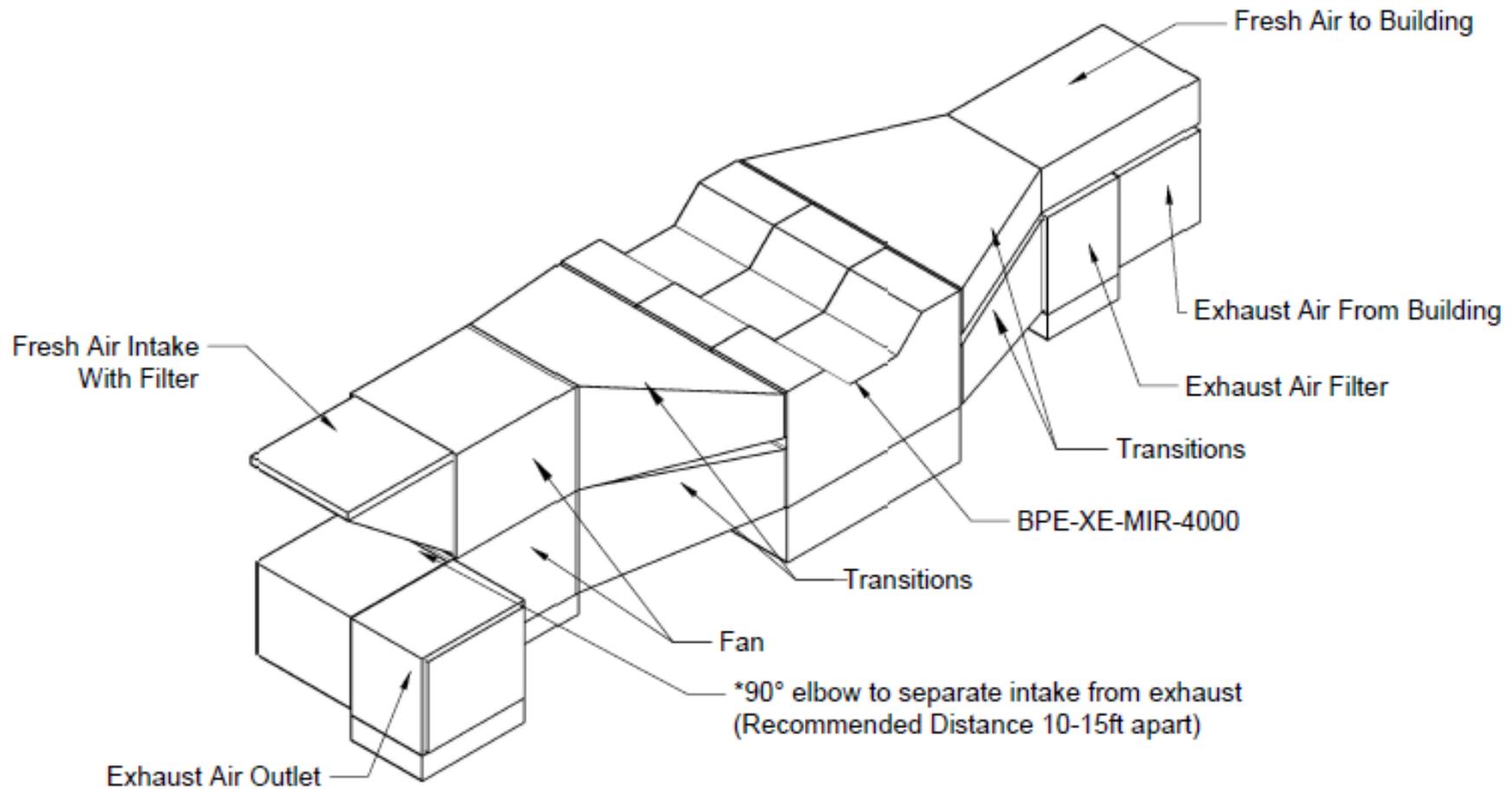
Model Number	BPE-XE-MIR 6000, Energy Recovery Ventilator (ERV)
Ventilation Type	Fixed Plate Polymer, Heat and Humidity Transfer
Typical Air Flow Range	3000-6000 cfm
Thermal Efficiency	82% @ 3700 cfm 72% @ 5500 cfm
Product Weight/ Shipping Weight	606 lbs./666 lbs.
Shipping Dimensions	(3) 56" L x 24" W x 32.5 H"
Typical Fan	CANARM 9220-VIB Inline Duct Blower (See page 8)



Note: Dimensions subject to change without notice



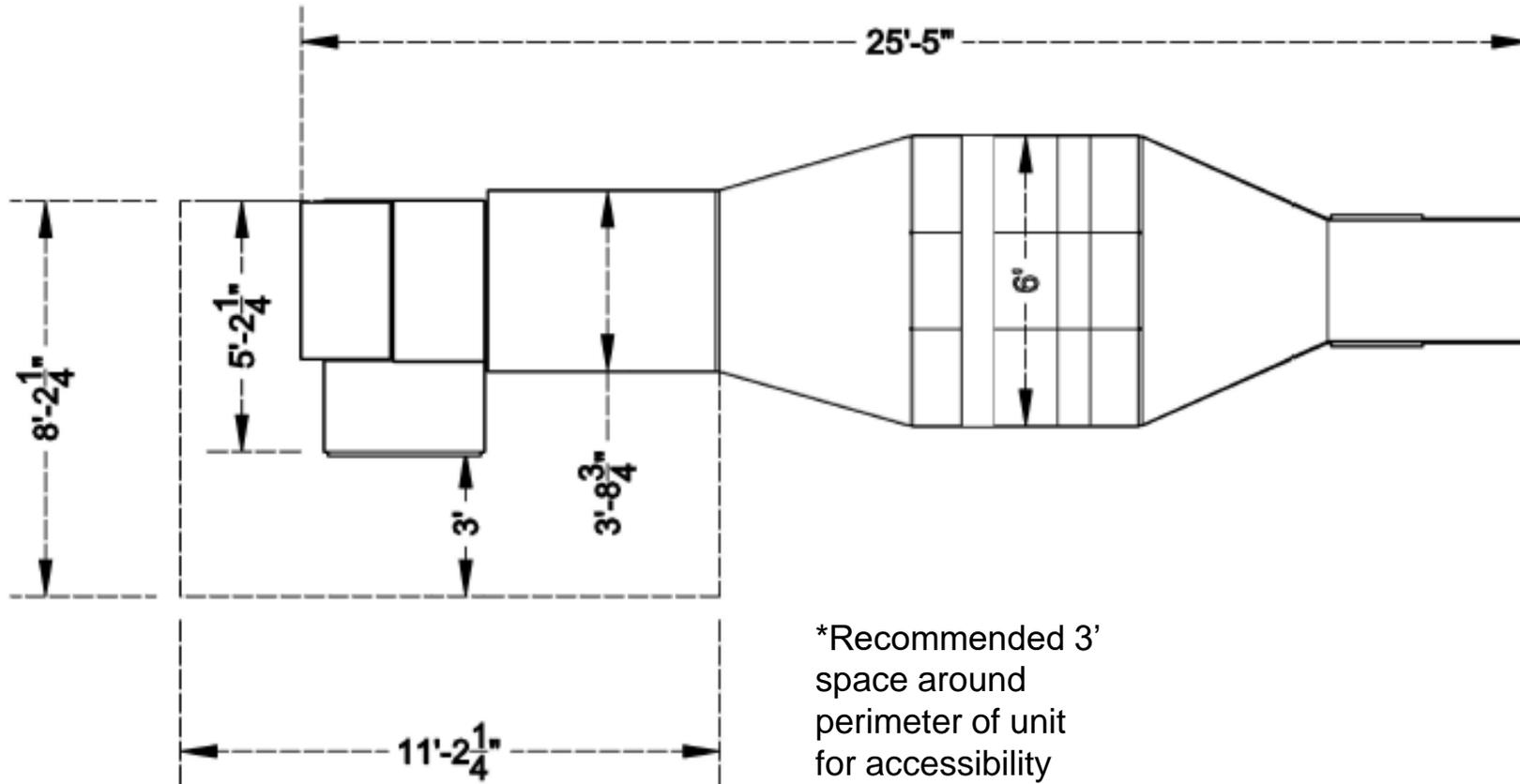
BPE-SC-UNI-6000 Layout





BPE-SC-UNI-6000 Layout

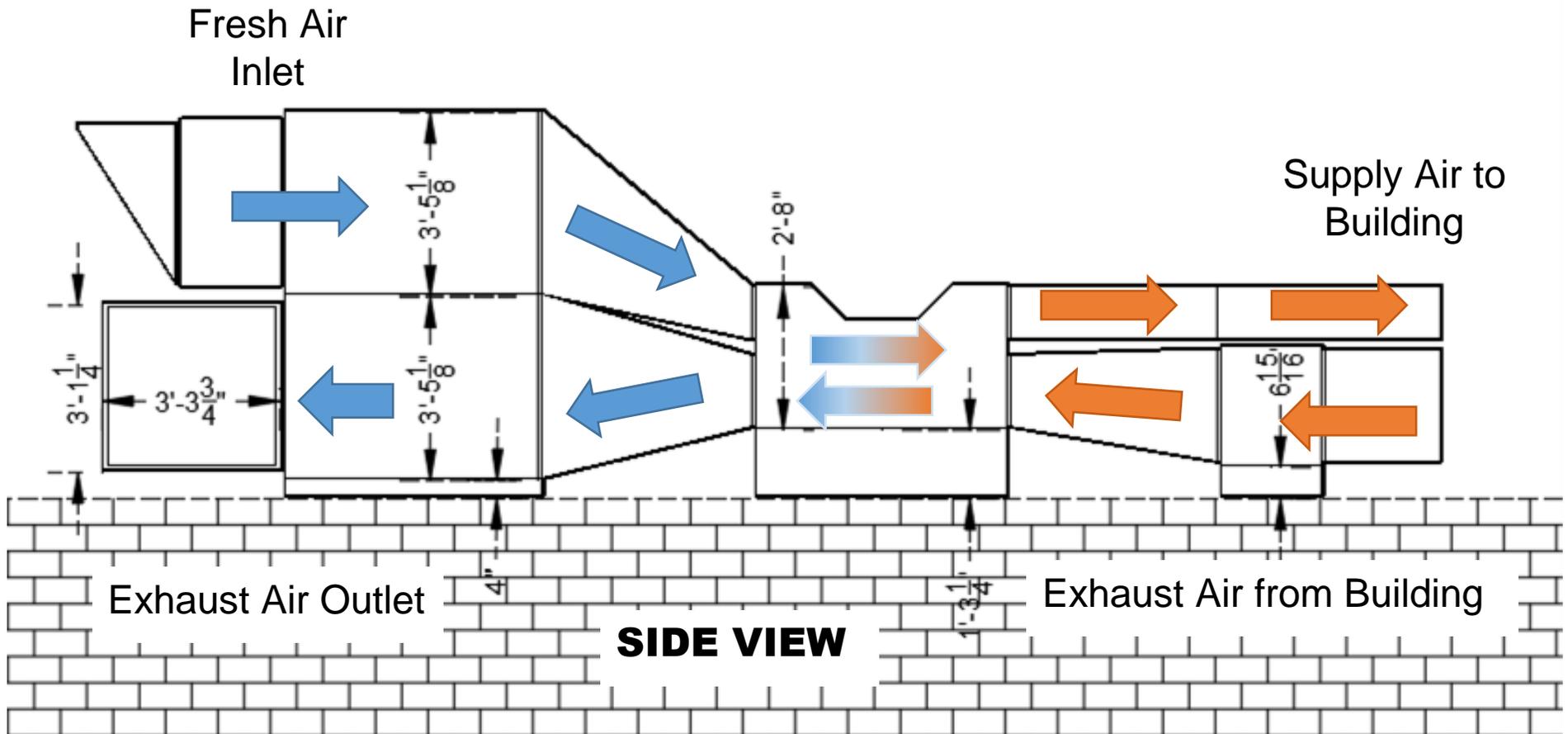
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TOP VIEW

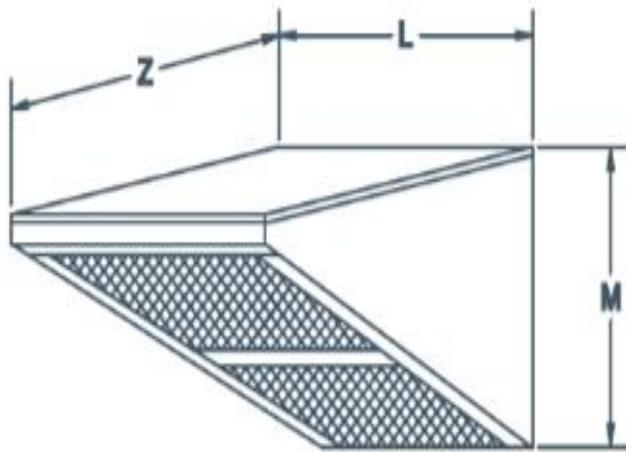


BPE-SC-UNI-6000 Layout



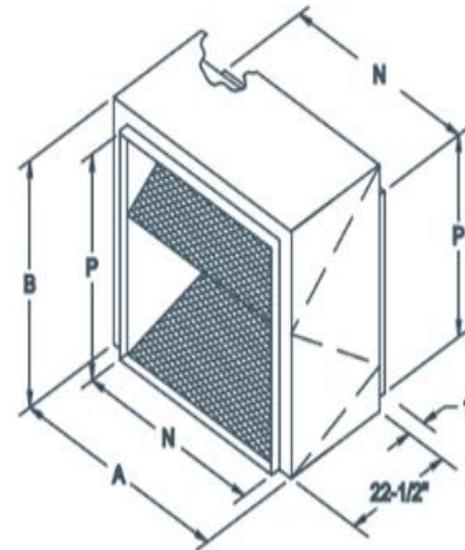
Intake Hood & Filter Selection

H9220 Intake Hood



L	38 5/8"
M	35 9/16"
Z	22"

F9220A Filter Section



A	39 3/4"
B	37 1/4"
N	38 1/2"
P	35 1/4"



Fan Selection

Model Information

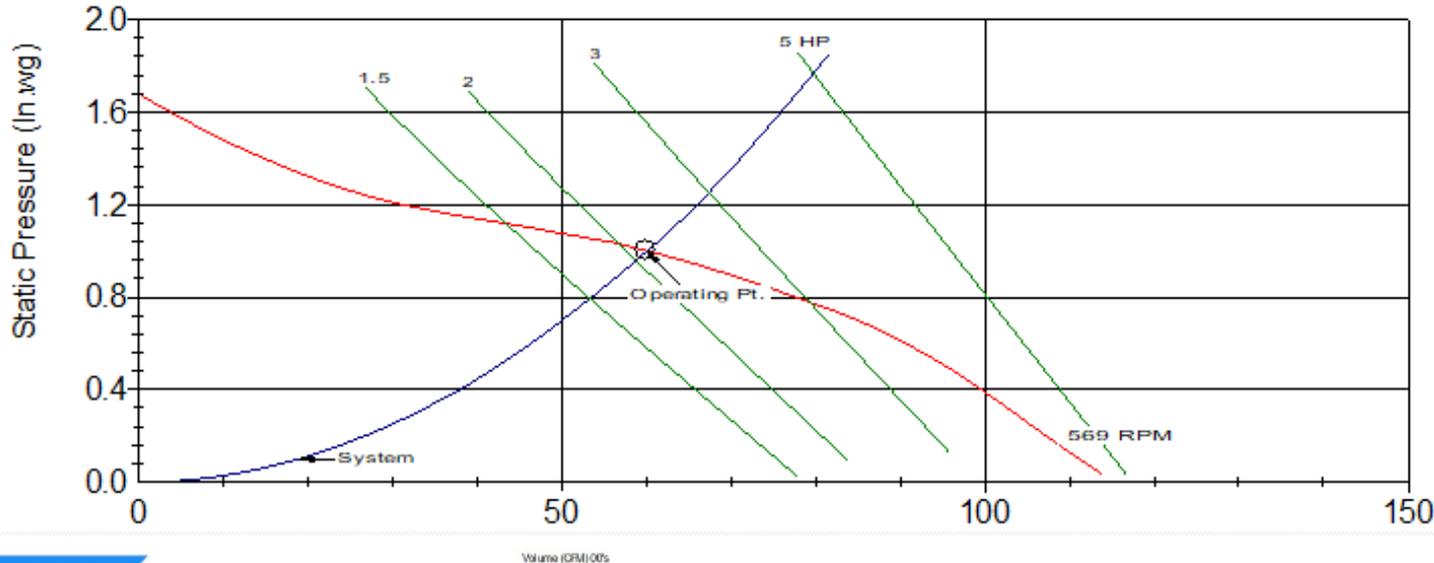
Model: 9220VIB	Part Number: 9020306	
CFM: 6000	Shaft Diameter: 1.4375	Unit Weight: 515
SP: 1	Wheel Diameter: 20.4375	Ship Weight: 574
RPM: 569	Tip Speed: 3044 FPM	
BHP: 2.13	Static Efficiency: 44	Elevation: 0
	Outlet Velocity: 1303 FPM	Temperature: 70

Sound Data

	63	125	250	500	1000	2000	4000	8000	(Hz)	LwA: 72
Sound Power Level @ Frequency, re: 10 ⁻¹² Watts	86	82	72	70	63	57	53	50	(dB)	SONES: 11.8
	Ducted inlet <u>or</u> ducted outlet dB A @5 ft. 61					Ducted inlet <u>and</u> ducted outlet dB A @5 ft. 41				

Performance Curve

DELHI Model 9220MB
CFM=6000 SP=1 BHP=2.13 S. Eff=44% RPM=569



Note: Fan supplier subject to change by BPE without notice



Canam certifies that the 200, 200-2, 9200 and 9200-2 Series Duct Blowers shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311, and comply with the requirements of the AMCA Certified Ratings Programme. Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating bhp does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are in loudness values in fan sones at 1.5m (5ft) in a hemispherical free field calculated per AMCA 301. Values shown are for Installation Type B: free inlet hemispherical fan sone levels. Twin unit data is derived from tests of single width fans. v. 13.0.15



Fan Selection

Drive Information

Motor Pulley	Turns Open	Blower Pulley	Bushing	Belt
8400 x 1-1/8" \ 8500038	4	MBL127 \ 8500009	H x 1-7/16 \ 8500065	B78 \ 8200078

Motor Data

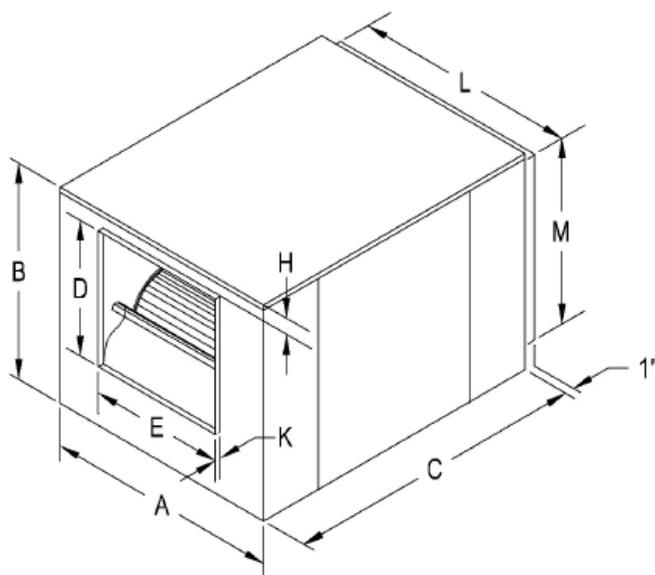
Motor HP and Type	Volts/Phase	Frame	Motor RPM	Position	Canarm Part Number
3 ODP	115/230/1 Phase	184	1725	1	1MD117

Options

Dimensions

Model: 9220VIB

(Inches)



<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>H</u>	<u>K</u>	<u>L</u>	<u>M</u>
44.75	41.125	57.5	25.75	25.75	3.0	1.125	38.375	35.125

Standard Features

9200 VIB Series Duct Blowers (In-line Cabinet Fans)

- Forward curved wheel provides quiet, low rpm operation.
- Internal spring isolation further reduces sound radiation.
- Cabinet is galvanized steel for outdoor use with baked on textured green polyethylene powder coat finish.
- Fiberglass insulation reduces noise, condensation, and energy costs.
- Self aligning Pillow Block Bearings.
- Access panels for convenient motor mounting on either side.



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